

## Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, ' 10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Columbia Gas Transmission Corporation
Facility Name:	Bickers Compressor Station
Facility Location:	Greene County, three miles southwest of Stanardsville on Route 604 Stanardsville, Virginia
Registration Number:	40083
Permit Number:	VRO40083

November 19, 2002

Effective Date

November 19, 2007

Expiration Date

Robert G. Burnley  
Director, Department of Environmental Quality

\_\_\_\_\_  
Signature Date

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## **I. Facility Information**

### **Permittee**

Columbia Gas Transmission Corporation  
Bickers Compressor Station  
P. O. Box 1273  
Charleston, West Virginia 25325-1273

### **Responsible Official**

Mr. Dana M. Debaets  
Manager – Field Services  
(804) 733-2471

### **Facility**

Bickers Compressor Station  
Greene County, three miles southwest of Stanardsville, Virginia on Route 604.

### **Contact person**

Mr. P. Michael Hoffman  
Environmental Engineer  
(304) 357-2548

**AIRS Identification Number:** 51-079-0006

**Facility Description:** SIC Code 4922 - Natural Gas Transmission, Gas Production and Distribution

The Bickers Compressor Station (BCS) is a natural gas transmission facility. Natural gas (NG) is received via pipelines from an upstream compression station, is compressed, and is pumped into outlet pipelines for transmission downstream. The BCS utilizes four (4) natural gas-fired stationary reciprocating internal combustion (IC) engines, each nominally rated at 3,200 horsepower (hp) to drive the natural gas compressors. Auxiliary equipment at the facility includes one natural gas-fired boiler rated at 2.1 x mmBtu/hr heat input, one natural gas pipeline heater rated at 4.0 mmBtu/hr, one natural gas fired generator rated at 82 Hp, and one natural gas-fired generator nominally rated at 375 Hp.

## II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
00201	E01	Cooper Bessemer GMWH-8V-275 natural gas-fired IC compressor engine (constructed 1990)	3,200 horsepower nominal, 3,710 horsepower during periods of low ambient temperature	--	--	--	05/25/90
00202	E02	Cooper Bessemer GMWH-8V-275 natural gas-fired IC compressor engine (constructed 1990)	3,200 horsepower nominal, 3,710 horsepower during periods of low ambient temperature	--	--	--	05/25/90
00203	E03	Cooper Bessemer GMWH-8V-275 natural gas-fired IC compressor engine (constructed 1990)	3,200 horsepower nominal, 3,710 horsepower during periods of low ambient temperature	--	--	--	05/25/90
00204	E04	Cooper Bessemer GMWH-8V-275 natural gas-fired IC compressor engine (constructed 1997)	3,200 horsepower nominal, 3,712 horsepower during periods of low ambient temperature	Clean burn precombustion chamber, turbocharger, air cooler.	--	--	04/29/97
002G1	G1	Waukesha VGF-18GL natural gas fired Auxiliary Generator (constructed 1990)	375 horsepower nominal; 412.5 horsepower maximum short-term rating.	--	--	--	04/29/97

\*The Size/Rated capacity is provided for informational purposes only, and is not for compliance purposes.

### **III. Internal Combustion Compressor Engine Requirements - (Emission Units 00201, 00202, 00203, and 00204)**

#### **A. Limitations**

1. The approved fuel for the four Cooper Bessemer GMWH-8V-275C2 compressor engines (Emission Units 00201, 00202, 00203, and 00204) is natural gas. A change in the fuels may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 5 of 04/29/97 Permit, and Specific Condition 9 of the 05/25/90 Permit)
2. Nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compound (VOC) emissions from Emission Units 00201, 00202, and 00203 shall be monitored through proper operation and maintenance of the engines. Emission Unit operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.  
(9 VAC 5-80-110E)
3. Nitrogen oxides, CO, and VOC emissions from Emission Unit 00204 shall be controlled through proper operation and maintenance of the unit. Clean burn pre-combustion chamber technology, a turbocharger, and an air cooler shall be installed on Emission Unit 00204. Emission Unit operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.  
(9 VAC 5-80-10, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 3 of 04/29/97 Permit)
4. Each Emission Unit 00201, 00202, 00203, and 00204 shall not operate more than 28 million horsepower hours (hp-hr) per year, calculated monthly for the latest 12 consecutive month period.  
(9 VAC 5-80-110, and Condition 8 of 04/29/97 Permit, and Specific Condition 5 of 05/25/90 Permit)
5. Each Emission Unit 00201, 00202, and 00203 shall operate at no more than 3710 brake horsepower/engine. Emission Units 00204 shall operate at no more than 3712 brake horsepower.  
(9 VAC 5-80-110, Condition 4 of 04/29/97 Permit, and Condition 4 of 05/25/90 Permit)
6. Emissions from the operation of Emission Units 00201, 00202, 00203, and 00204 shall not exceed the emission standards specified below:

	<u>Emission Units 00201, 00202, 00203</u>	<u>Emission Unit 00204</u>
Nitrogen Dioxide	2.5 g/bhp-hr/engine	
Nitrogen Oxides	2.0 g/bhp-hr/engine *	2.0 g/bhp-hr ** 1.25 g/bhp-hr ***
Carbon Monoxide	2.3 g/bhp-hr/engine	
Volatile Organic Compounds	0.7 g/bhp-hr/engine	

\* standard for engine while operating at up to 3710 hp (ambient uprating due to low ambient air temperature)

\*\* standard for engine while operating at up to 3712 hp (ambient uprating due to low ambient air temperature)

\*\*\* annual average  
(9 VAC 5-50-260, 9 VAC 5-80-110, Condition 3 of 04/29/97 Permit, Condition 4 of 04/29/97 Permit, Specific Condition 4 of 05/25/90 Permit, and Specific Condition 6 of 05/25/90 Permit)

7. Combined emissions from the operation of Emission Units 00201, 00202, and 00203 shall not exceed the limits specified below:

Nitrogen Dioxide (as NO <sub>2</sub> )	52.9 lbs/hr	231.7 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	48.7 lbs/hr	213.2 tons/yr	(9 VAC 5-50-260)
Volatile Organic Compounds	14.8 lbs/hr	64.9 tons/yr	(9 VAC 5-50-260)

Annual emissions shall be calculated monthly by summing emissions of each consecutive 12-month period.  
(9 VAC 5-50-260, 9 VAC 5-80-110, and Specific Condition 6 of 05/25/90 Permit)

8. Emissions from the operation of Emission Unit 00204 shall not exceed the limits specified below:

Nitrogen Oxides (as NO <sub>2</sub> )	16.4 lbs/hr	38.6 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	16.4 lbs/hr	61.8 tons/yr	(9 VAC 5-50-260)

Volatile Organic                      8.2 lbs/hr      30.9 tons/yr                      (9 VAC 5-50-260)  
Compounds

Annual emissions shall be calculated monthly by summing emissions of each consecutive 12-month period.  
(9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 10 of 04/29/97 Permit)

9. Visible emissions from Exhaust Stack IDs E01, E02, and E03 (Emission Units 00201, 00202, and 00203) shall not exceed 5 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity. Visible emissions from Exhaust Stack ID E04 (Emission Unit 00204) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.  
(9 VAC 5-50-260, 9 VAC 5-50-80, and 9 VAC 5-80-110, Condition 12 of 04/29/97 Permit, and Specific Condition 7 of 05/25/90 Permit)
10. The permittee shall develop a maintenance schedule for each Emission Unit and maintain records of all scheduled and non-scheduled maintenance performed on each Emission Unit 00201, 00202, 00203, and 00204 in order to minimize the duration and frequency of excess emissions and visible emissions as a result of malfunctions of process equipment.  
(9 VAC 5-80-110 and Condition 20 of 04/29/97 Permit)

## **B. Monitoring and Recordkeeping**

1. The permittee shall maintain records of the required training including personnel trained, a statement of time, place and nature of training provided.  
(9 VAC 5-80-110)
2. The permittee shall have available good written operating procedures, an inspection schedule and a maintenance schedule for Emission Units 00201, 00202, 00203, and 00204. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site for a period of five years and shall be made available for inspection by the DEQ.  
(9 VAC 5-80-110)
3. Each of the Emission Units 00201, 00202, 00203, and 00204 shall be equipped with monitoring devices that provide appropriate data to be used in calculating the work performed by each Emission Unit in units of horsepower-hours (hp-hrs).  
(9 VAC 5-80-110, Condition 6 of 04/29/97 Permit, and Specific Condition 10 of 05/25/90 Permit)
4. Each of the Emission Units 00201, 00202, 00203, and 00204 shall be equipped with monitoring devices that provide appropriate data to be used in determining the following: load, hours of operation, and speed.  
(9 VAC 5-80-110E)



5. As a component of the periodic monitoring plan, the permittee shall use source selected, DEQ approved, portable analyzers to measure the emissions of NO<sub>x</sub> as nitrogen dioxide (NO<sub>2</sub>), CO, and oxygen (O<sub>2</sub>) in the exhaust gas streams of Emission Units 00201, 00202, and 00203. The periodic monitoring plan for Emission Unit 00204 shall consist of the use of source selected, DEQ approved, portable analyzers to measure the emissions of NO<sub>x</sub> as NO<sub>2</sub>, and O<sub>2</sub> in the exhaust gas stream of Emission Unit 00204.

Periodic monitoring measurements shall be taken at least once semi-annually beginning with the six-month period following the issuance of this permit. Portable analyzers shall be used to test all four Emission Units during the initial six-month period. Following the initial six-month period, the permittee shall select and conduct periodic monitoring on two Emission Units. During the next six-month period the permittee shall conduct periodic monitoring on the remaining two Emission Units. Periodic monitoring shall be applied to each Emission Unit a minimum of once each calendar year, beginning with year 2003. The DEQ reserves the right to change the frequency of periodic monitoring emission tests.

Periodic monitoring for Emission Unit 00204 shall consist of a minimum of two measurements for NO<sub>x</sub> emissions and O<sub>2</sub>. At least one NO<sub>x</sub> periodic monitoring measurement shall be conducted while Emission Unit 00204 is operating in ambient up-rating mode (approaching 3712 hp). If Emission Unit 00204 does not operate in ambient up-rating mode during a calendar year, then a periodic monitoring measurement during ambient uprating of Emission Unit 00204 is not required that year. If ambient uprating of Emission Unit 00204 occurs in a calendar year, and a valid ambient uprating periodic monitoring measurement is not obtained in the calendar year, compliance with the annual average standard of performance for Emission Unit 00204 shall be calculated by substituting the maximum emission rate of 2.0 g/bhp-hr for the missing data point.

Details of the periodic monitoring measurement procedures are to be arranged with and approved by the Air Compliance Manager, DEQ, Valley Regional Office. The permittee shall submit a periodic monitoring protocol at least 30 days prior to making the initial measurement and 30 days prior to subsequent changes to the measurement protocol. At a minimum, the test protocol shall address the following items:

- a. specify that portable monitors (permittee selected and pre-approved by DEQ) shall be used to measure the average hourly concentration of NO<sub>x</sub> (as NO<sub>2</sub>), CO, and O<sub>2</sub> in the exhaust stream of Emission Units 00201, 00202, and 00203; specify that portable monitors (permittee selected and pre-approved by DEQ) shall be used to measure the average hourly concentration of NO<sub>x</sub> (as NO<sub>2</sub>) and O<sub>2</sub> in the exhaust stream of Emission Unit 00204.
- b. The permittee shall document process parameters necessary to determine Emission Unit performance with respect to the emission standards and the hourly emission limits identified in permit Conditions III.A.6 through III.A.8. At a minimum, the following process parameters shall be monitored or calculated and recorded for each measurement:
  - i. The pollutant mass flow rate (lbs/hr), the pollutant concentration on a dry volume basis, and the O<sub>2</sub> concentration in the Emission Unit exhaust

gases;

- ii. the work performed by the Emission Unit, measured or calculated in hp-hrs;
- iii. time duration of each measurement (hours);
- iv. the actual or calculated gas volume flow rate of each stack tested, if required, to convert pollutant concentrations to a mass flow rate (lbs/hour);
- v. quantity of fuel consumed by the Emission Unit during the emissions measurement, if required to calculate Emission Unit exhaust gas volume flow rate;
- vi. any additional information necessary to determine emission rates of the Emission Units.

The NO<sub>x</sub> emission rate shall include the combined measured emissions of NO and NO<sub>2</sub>, and shall be reported collectively as NO<sub>2</sub>. Emissions of NO<sub>x</sub>, CO, and O<sub>2</sub> shall be reported in appropriate units for comparison with the emission standards and emission limits established in Section III.A of this permit.  
(9 VAC 5-80-110 E)

- 6. When periodic monitoring performed in accordance with Condition III.B.5 indicates the emission rate of NO<sub>x</sub> or CO exceeds the emission standard (g/bhp-hr/engine) shown in Condition III.A.6 for Emission Units 00201, 00202, 00203, or 00204, then the permittee shall perform the following on the Emission Unit(s) in question:
  - a. Verify that the Emission Unit is operating in accordance with manufacturer's specifications or other predetermined site-specific acceptable operating conditions. If an Emission Unit is not operating properly, the permittee shall take corrective action in an effort to reduce emissions to or below the emission standard contained in Condition III.A.6;
  - b. Within one week of applying corrective action to the Emission Unit, the permittee shall remeasure and document the emission rate of the pollutant in question (NO<sub>x</sub> or CO). The measurement shall be conducted in accordance with procedures specified in Condition III.B.5.
  - c. If corrective action performed in accordance with Condition III.B.6.a does not eliminate the exceedance of the emission standard (g/bhp-hr), then the permittee shall conduct a compliance test for the pollutant of concern (NO<sub>x</sub> or CO) within 45 days of completing the corrective action taken in Condition III.B.6.a or within 45 days of completing additional corrective action on the Emission Unit in question. If the pollutant of concern is CO, compliance tests for both CO and VOC emissions shall be conducted on the Emission Unit to determine compliance with the emission standards and hourly emission limits contained in Section III.A of this permit. The compliance test shall be conducted in accordance with EPA approved reference methods in 40

CFR 60 Appendix A, or other methods/procedures approved in advance by the Air Compliance Manager, DEQ, Valley Regional Office.  
(9 VAC 5-80-110 E)

7. For periodic monitoring purposes, the permittee shall maintain and calibrate the portable NO<sub>x</sub>, CO and O<sub>2</sub> emissions monitoring test equipment in accordance with the manufacturer's specifications and recommended calibration frequency. The permittee shall use manufacturer's specifications and recommended calibration frequency to maintain and calibrate the monitoring devices associated with Emission Units 00201, 00202, 00203, and 00204 that are used to provide data for use in calculating work performed by each Emission Unit. The specifications and calibration frequencies may be changed upon request or approval of the DEQ.  
(9 VAC 5-80-110)
8. As a component of the periodic monitoring plan, the permittee shall observe the exhaust stack (Stack IDs E01, E02, E03, and E04) of each emission unit for the presence of opacity. Emission Units 00201, 00202, 00203, and 00204 have visible emission requirements and shall be observed visually at least once each calendar week for at least a brief time period to determine which operating emission units have normal visible emissions. Each emission unit observed having above-normal visible emissions shall be followed up with a 40 CFR 60, Appendix A, Method 9 visible emissions evaluation unless the visible emission condition is corrected as expeditiously as possible. Excess opacity emissions, its cause, and corrective measures taken to eliminate excess opacity emissions shall be documented.  
(9 VAC 5-80-110 E)
9. The permittee shall monitor and maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, DEQ, Valley Regional Office. The monitoring and recordkeeping requirements for Emission Units 00201, 00202, 00203, and 00204 shall include, but are not limited to:
  - a. The monthly work output (hp-hr) for each Emission Unit, recorded monthly;
  - b. The annual work output (hp-hr) of each Emission Unit, calculated monthly as the sum of each consecutive 12 month period;
  - c. The hours of operation of each Emission Unit, recorded monthly;
  - d. The annual total of hours of operation for each Emission Unit, calculated monthly as the sum of each consecutive 12 month period;
  - e. The DEQ approved, pollutant-specific emission factors and equations used to monitor and demonstrate compliance with the emission limits contained in Conditions III.A.7 and III.A.8 (hourly and annual emission limits);
  - f. Records of the work performed by Emission Unit 00204 measured in horsepower-hr (hp-hr), recorded once each weekday from October through March, when the work

generated by Emission Unit 00204 exceeds the nominal load value of 3200 hp by 5% (3360 hp);

- g. All NO<sub>x</sub> (measured as NO<sub>2</sub>), CO, and O<sub>2</sub> periodic monitoring emission measurements used to monitor Emission Units 00201, 00202, 00203, and 00204 compliance with Condition III.A.6. Records shall include all stack gas concentrations, emission rates (g/bhp-hr), example equations, and sample calculations used to convert from units of concentration (ppmdv) to units of grams of pollutant/brake horsepower-hr;
- h. Weekly record of the opacity monitoring results. The records shall including the following: date of measurement; emission unit identification number; opacity observation results for each stack; corrective action taken to reduce opacity, if required; opacity measurement results of all 40 CFR 60, Appendix A, Method 9 visible emission evaluations performed on an Emission Unit exhaust stack; and any additional actions taken as a result of a Method 9 visible emissions evaluation;
- i. Any additional records necessary to demonstrate compliance with the periodic monitoring requirements of this permit; and
- j. The annual natural gas consumption of the Emission Units.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years. Periodic monitoring records shall be reported as required in Condition VII.C of this permit.

(9 VAC 5-50-50, 9 VAC 5-80-110, Condition 16 of 04/29/97 Permit, and Specific Condition 11 of 05/25/90 Permit)

- 10. Emissions monitoring data collected or calculated in accordance with Conditions III.B.5, III.B.6, III.B.8, and III.B.9 which show an exceedance of an applicable emission standard or emission limitation may be considered evidence of a violation of this permit.  
(9 VAC 5-80-110)

## C. Testing

- 1. Ports and Methods - Test ports shall be provided at the appropriate stack location on Emission Units 00201, 00202, 00203, and 00204 in accordance with 40 CFR 60, Appendix A, Method 1 or 1A. The DEQ and EPA reserve authority to require emissions testing on Emission Units 00201, 00202, 00203, or 00204 at any time to determine compliance with an emission limit or standard. The permittee shall use test methods in accordance with procedures approved by the DEQ.

Condition III.B.6 specifies an emissions stack test shall be performed when periodic monitoring of the Emission Units indicates an uncorrectable emission limit exceedance has occurred.

(9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 7 of 04/29/97 Permit)

2. The use of portable emission monitors for periodic monitoring of Emission Units 00201, 00202, 00203, and 00204 shall be conducted according to the procedures in Condition III.B.5.  
(9 VAC 5-80-110)

#### **D. Reporting**

1. Reporting of emission exceedances above the applicable emission standards in Condition III.A.6 shall be conducted in accordance with the permit deviation reporting procedures in Condition VII.E. The results of each compliance test shall be provided to the Air Compliance Manager, DEQ, Valley Regional Office within 30 days of conducting the test.  
(9 VAC 5-80-110)
2. The general requirements and procedures set forth in Section VII, Conditions C. through F. of this permit shall be followed with respect to reporting requirements.  
(9 VAC 5-80-110)
3. Annually the permittee will be required to provide information to the DEQ or the Board, which will be used to maintain the currency of the stationary source emission database. The information requested may include, but is not limited to process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact. The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.1-340 through 2.1-348 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board's Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.  
(9 VAC 5-80-110, Condition 23 of 04/29/97 Permit, and General Condition 13 of 05/25/90 Permit)

#### **IV. Auxiliary Generator Requirements - (Emission Unit 002G1)**

##### **A. Limitations**

1. The approved fuel for the auxiliary generator (Emission Unit 002G1) is natural gas. A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 9 of 04/29/97 Permit)
2. Emission Unit 002G1 is to be used only for providing power at the location during interruption of service from the normal power supplier. The generator engine shall operate no more than 500 hours per year for the purpose of demonstrating the reliability of the engine and electric generator. Failure to comply may result in a Notice of Violation and civil penalty.  
(9 VAC 5-80-110 and Condition 9 of 04/29/97 Permit)

3. Visible emissions from Emission Unit 002G1 shall not exceed 20 percent opacity except for one six-minute period in any one hour of not more than 30 percent opacity. Failure to meet the opacity requirement because of the presence of water vapor shall not be a violation.  
(9 VAC 5-50-80 and 9 VAC 5-80-110)
4. The permittee shall develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance performed on Emission Unit 002G1 in order to minimize the duration and frequency of excess emissions and visible emissions resulting from malfunctions of process equipment.  
(9 VAC 5-80-110 and Condition 20 of 04/29/97 Permit)

## **B. Monitoring and Recordkeeping**

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, DEQ, Valley Regional Office. These records shall include, but are not limited to:
  - a. the number of hours of non-emergency operation of Emission Unit 002G1 for the purpose of demonstrating the reliability of the engine and electric generator, calculated monthly as the sum of each consecutive 12-month period.
  - b. the total hours of operation of Emission Unit 002G1 while providing power due to interruption of service from the normal power supplier. The data shall not include hours of operation as a result of demonstrating the reliability of the engine and electric generator. The total hours of operation shall be recorded annually on a calendar basis.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-50-50 and 9 VAC 5-80-110)

2. As a component of the periodic monitoring plan, the permittee shall observe the exhaust stack (Stack ID G1) of Emission Unit 002G1 at least once during each semi-annual period for the presence of opacity while the generator is operating. Opacity observations are not required if the engine does not operate during the semi-annual period. The exhaust stack shall be observed for a brief period of time to determine if the emission unit has normal visible emissions (not including condensed water vapor/steam), unless a 40 CFR 60, Appendix A, Method 9 visible emissions evaluation is performed on the emissions unit. Each monitoring observation having above-normal visible emissions shall be followed up with a 40 CFR 60, Appendix A, Method 9 visible emission evaluation unless the visible emission condition is corrected, as expeditiously as possible. The source shall record the cause and corrective measures taken to reduce opacity emissions. The source shall record the results of the semi-annual periodic monitoring observations and any 40 CFR 60, Appendix A, Method 9 observations.  
(9 VAC 5-80-110E)

### **C. Testing**

1. Ports and Methods – Upon request of the DEQ, test ports shall be provided at the appropriate location on the auxiliary generator stack (Stack ID G1) in accordance with 40 CFR 60, Appendix A, Method 1 or 1A. The Department and EPA have authority to require testing not included in this permit to determine compliance with an emission limit or standard. The permittee shall use test methods in accordance with procedures approved by the DEQ.  
(9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 7 of 04/29/97 Permit)

### **D. Reporting**

1. Reporting of emission exceedances above the applicable emission standards shall be conducted in accordance with the permit deviation reporting procedures in Condition VII.E. Any compliance test results shall be provided to the Air Compliance Manager, DEQ, Valley Regional Office within 30 days of conducting the test.  
(9 VAC 5-80-110)
2. The general requirements and procedures set forth in Section VII, Conditions C. through F. of this permit shall be followed with respect to reporting requirements.  
(9 VAC 5-80-110)
3. Annually the permittee will be required to provide information to the DEQ or the Board, which will be used to maintain the currency of the stationary source emission database. The information requested may include, but is not limited to process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact. The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.1-340 through 2.1-348 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board's Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.  
(9 VAC 5-80-110, Condition 23 of 04/29/97 Permit, and General Condition 13 of 05/25/90 Permit)

### **V. Insignificant Emission Units**

1. The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (5-80-720 B)	Rated Capacity (5-80-720 C)
BLR1	Boiler #1, Heating System Boiler (natural gas-fired)	9 VAC 5-80-720 C	---	2.1 MMBtu/hr
HTR1	Heater #1, Line Heater (natural gas-fired)	9 VAC 5-80-720 C	---	4.0 MMBtu/hr
AO1	Lube Oil tank	9 VAC 5-80-720 B	VOC	8,000 gallons
AO2	Used Oil tank	9 VAC 5-80-720 B	VOC	8,000 gallons
AO3	Glycol Tank	9 VAC 5-80-720 B	VOC, ethylene glycol	8,000 gallons
AO4	Water mixture Tank (Glycol/Water Mixture)	9 VAC 5-80-720 B	VOC, ethylene glycol	8,000 gallons
AO5	Pipeline Liquids Tank	9 VAC 5-80-720 B	VOC, benzene, ethylbenzene, hexane, toluene, xylene	8,000 gallons
AO6	Water Mixture Tank	9 VAC 5-80-720 B	VOC	8,000 gallons
AO7	Gasoline Tank	9 VAC 5-80-720 B	VOC, benzene, ethylbenzene, hexane, toluene, xylene	600 gallons
AO8	Diesel Fuel Tank	9 VAC 5-80-720 B	VOC, benzene, hexane, xylene	400 gallons
BWIS	Basement Water Injection System	9 VAC 5-80-720 B	Bis (2-Ethylhexy) phthalate, barium, cadmium, chromium, lead	7,884,000 gallons
002G1	Natural Gas Emergency Electrical Generator.	9 VAC 5-80-720 C.4.d	---	375 Hp
002G2	Ford 6 cylinder - Natural Gas Emergency Electrical Generator.	9 VAC 5-80-720 C.4.d	---	82 Hp

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units unless specified in a new source permit.



## VI. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of applicability
40 CFR 64	Compliance Assurance Monitoring	The Compliance Assurance Monitoring rule applies to pollutant-specific emission units with pre-control device emissions of regulated pollutants exceeding major source thresholds. The units must have control devices in place and applicable requirements for the subject pollutant. The rule requires sources to monitor the operation and maintenance of the control devices to ensure compliance with applicable requirements. The Bickers Compressor Station does not have any individual emission units that emit pre-control device emissions above the major source thresholds.
40 CFR 82	Protection of Stratospheric Ozone	The Bickers Compressor Station does not use any ozone depleting substances regulated by the subject rule.

Nothing in this permit shield shall alter the provisions of ' 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to ' 114 of the federal Clean Air Act, (ii) the Board pursuant to ' 10.1-1314 or ' 10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to ' 10.1-1307.3 of the Virginia Air Pollution Control Law.  
(9 VAC 5-80-140)

## VII. General Conditions

### A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.  
(9 VAC 5-80-110 N)

### B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent, with 9 VAC 5-80-80, has been submitted, to the Department, by the owner, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.  
(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

### C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
  - a. The date, place as defined in the permit, and time of sampling or measurements.
  - b. The date(s) analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses.
  - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application.  
Support information includes all calibration and maintenance records and all original strip-

chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.  
(9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
    - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
    - b. All deviations from permit requirements. For purposes of this permit, a deviation means any condition determined by observation, data from any monitoring protocol or any other monitoring which is required by the permit that can be used to determine compliance. Deviations include exceedances documented by continuous emission monitoring or exceedances from control performance indicators documented through periodic or compliance assurance monitoring.
- (9 VAC 5-80-110 F)

#### D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to ' 114(a)(3) and ' 504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. A description of the means for assessing or monitoring the compliance of the source with its emissions limitations, standards, and work practices.
3. The identification of each term or condition of the permit that is the basis of the certification.
4. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the certification period.
5. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

6. The status of compliance with the terms and conditions of this permit for the certification period.
7. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)  
U.S. Environmental Protection Agency, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

#### E. Permit Deviation Reporting

The permittee shall report by the next business day any deviations from permit requirements or any excess emissions, including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

(9 VAC 5-80-110 F.2)

#### F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the Director, Valley Region by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Valley Region.

(9 VAC 5-20-180 C)

#### G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1 and Condition 11 of 05/25/90 Permit)

#### H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (9 VAC 5-80-110 G.2)

#### I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (9 VAC 5-80-110 G.3)

#### J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:
  - a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is the potential of, a resulting emissions increase;
  - b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
  - c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emission cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
  - d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
  - e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;

- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and by 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

#### K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9 VAC 5-80-110 G.5)

#### L. Duty to Submit Information

- 1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.  
(9 VAC 5-80-110 G.6)
- 2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.  
(9 VAC 5-80-110 K.1)

#### M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355.  
(9 VAC 5-80-110 H)

#### N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited, to the following:

- 1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and
5. The prompt removal of spilled or traced dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-50)

#### O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

#### P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 1.

(9 VAC 5-80-110 J)

#### Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2, Condition 18 of 04/29/97 Permit, and Condition 15 of 05/25/90 Permit)

#### R. Reopening For Cause

The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

#### S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)



#### T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.  
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160, Condition 22 of 04/29/97 Permit, and Condition 10 of 05/25/90 Permit)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)

#### U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
  - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
  - d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

#### V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The board may suspend, under such conditions and for such period of time as the board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

#### W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

#### X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A - F)

#### Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

## Z. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9 VAC 5-80-110 I)

### AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110 except subsection N shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)